

AMENDMENTS TO THE SPECIFICATION:

Please replace the paragraph beginning on page 1, line 17 and ending on page 1, line 26 with the following paragraph:

Referring to FIG. 4 14, reference numeral 1 denotes an optical fiber made of a core and a clad; 2 a grating which is formed at a part of the core of the optical fiber and reflects an optical signal of a number of wave lengths; 3 heaters which is are made of a thin film for heating the grating to a predetermined temperature distribution; and 4 a substrate which is, for instance, made of quartz and on which the heater 2 is mounted. Furthermore, Where the grating 2 is used for compensating the wavelength dispersion of a number of optical signals propagated through the optical fiber 1.

Please replace the paragraph beginning on page 2, line 8 and ending on page 2, line 20 with the following paragraph:

The positioning of the grating 2 with respect to the heater 3 in the longitudinal and the transverse directions is made on a microscope, while conforming the position of the grating 2, with a tension added to the optical fiber 1. However, since the diameter of the optical fiber is 125 µm or so (60 µm, for instance), accurate positioning and mounting of the grating 2 on the heater 3 are is difficult and take takes a lot of time times for complicated works. What is worse, the both ends of the optical fiber 1 of the grating 2 are only secured after the position, and any fixations are not had to the grating 2. Therefore, there can be a possibility that dislocation of the grating 2 with respect to the heater 3 would be occurred.

Please replace the paragraph beginning on page 9, line 20 and ending on page 10, line 4 with the following paragraph:

Referring to FIG.1, reference numeral 6 denotes a sprit-shaped strip-shaped member having a rectilinear V-shaped groove for accommodating therein an optical fiber 1; and 7 a gel substance as a filler filled in the V-shaped groove of the sprit-shaped strip-shaped member. The other substance other than the above is the same as that shown in FIG. 14, and so the same reference numerals are used and descriptions thereof will be omitted for brevity sake.

Please replace the paragraph beginning on page 7, line 17 and ending on page 7 line 31 with the following paragraph:

According to yet another aspect of the invention, there is provided a method of manufacturing an optical fiber holding device comprising an optical fiber having a grating; a heater for heating the grating to a predetermined temperature distribution; a strip-shaped member, having a rectilinear groove in which the optical fiber is accommodated, and a gel substance is filled; and a substrate on which the heater and the strip-shaped member are mounted, the method comprising the steps of mounting the optical fiber on the heater which is mounted on the substrate; coating the optical fiber mounted on the heater with a gel substance; mounting the step-shaped strip-shaped member on the substrate and accommodating the optical fiber in the groove of the strip-shaped member; and moving the strip-shaped member on the substrate so as to carry out a positioning of the grating with respect to the heater.